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1966
Fall
Semester
Evening
Courses

U. S. DEPT. OF AGRICULTURE
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CURRENT SERIAL RECORDS

GRADUATE SCHOOL • U. S. DEPARTMENT OF AGRICULTURE

Independence Avenue, between 12th and 14th Streets, Southwest, Washington, D. C. 20250 • DUDley 8-6337

Register
September 10-17



- Courses for High School and College Graduates
- Training for Federal Employees

REGISTER SEPTEMBER 10-17

General Information

Registration Week: September 10-17, in the Patio (first floor) of the Administration Building, U.S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington, D. C. 20250.

Saturdays 9-4 p.m.

Monday-Friday 11-6:30 p.m.

Procedures: Registration must be completed in person, or by someone acting for the registrant. Registration may not be completed by mail. Transcripts of previous educational records are not required, but graduation from high school, or the equivalent, is the general prerequisite for all courses. The more advanced courses have specific prerequisites. These are listed in the course descriptions contained in the catalog. Copies of the catalog are available in the personnel and training offices of agencies of the Federal Government and in the Graduate School office. Copies can also be obtained at the time of registration.

Academic Credit: Any student wishing to receive credit elsewhere for Graduate School courses should consult in advance with the college or university in which he plans to take a degree.

Counseling: Members of the Graduate School staff are on hand for counseling before and during the registration period. A testing service is available upon payment of a fee.

Fees: The charge for tuition is in general \$14 for each credit hour, payable at the time of registration. Arrangements may be made to pay one-half of the tuition at that time, in addition to a \$1.00 service charge. The second payment is due by October 14.

Late Registration: After September 17, a \$2.00 late registration fee is charged for each course. Late registrations will be accepted through September 30, with permission of the Registrar.

Course Transfers: Until September 30, students may transfer from one course to another without extra charge, only if space permits. After that date, there is a transfer fee of \$1.00. Transfers may be made only with the permission of the Registrar and the instructor concerned, and only if space permits.

Veterans: A veteran eligible for training under the Veterans Readjustment Benefits Act of 1966 (Public Law 89-358) should consult the Registrar well in advance of registration so that approval can be obtained from the Veterans Administration.

Federal Income Tax Deductions: According to the Internal Revenue Service regulation of April 5, 1958, expenses for education are deductible if undertaken for the purpose of "maintaining or improving skills by the taxpayer in his employment."

Class Schedule: Classes begin the week of September 19, and end the week of January 13.

Government Employees Training Act: If a student plans to ask his agency to pay all or part of his tuition under the training legislation (Public Law 85-507), he should make these arrangements in advance of registration week.

Textbooks: Textbooks can be purchased at the Graduate School Bookstore, Room 1419, South Building, at the following times:

Registration week, September 10-17
Monday-Friday, 11:00 a.m.-6:30 p.m.
Saturdays (September 10 and 17 only)
9:00 a.m.-4:00 p.m.

First week of classes, September 19-23
Monday-Friday (ONLY)
11:00 a.m.-6:30 p.m.

Beginning September 26
Monday-Friday (ONLY)
11:00 a.m.-1:00 p.m.
and
4:30 p.m.-6:15 p.m.

Bookstore Information:
DUDley 8-6070

Withdrawals and Refunds: When a student withdraws from a course, a refund is granted in accordance with the following schedule:

Through September 30, tuition less \$5.00 for each course
October 3-14, 60 per cent of total tuition
October 17-28, 50 per cent of total tuition

Laboratory fees are refunded only during the first week of classes. Notice of withdrawal must be made in writing to the Graduate School office. Forms are available for that purpose. Refunds are computed as of the date that notice of withdrawal is received in the Graduate School office. No refunds will be granted for any reason after October 28.

Credit-Audit Changes: The deadline is October 28.

Parking Space—Cafeteria: Space for parking is available for students and faculty only after 6:00 p.m. in three parking courts on the east and south sides of the Administration Building. The entrances are on Independence Avenue. There is also space on the Mall, north of the Administration Building. The cafeteria, in the fourth wing of the South Building, is open from 5:00 to 6:30 p.m.

Office Hours: The Graduate School office, Room 1031, South Agriculture Building, 14th Street and Independence Avenue, S.W., Washington, D. C., 20250, is open from 9:00 a.m. to 6:15 p.m. Monday through Friday.

Telephone DUDley 8-6337 (Code 111, extension 6337)

SCHEDULE OF CLASSES

Registration September 10-17

Classes begin September 19

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
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BIOLOGICAL SCIENCES

- | | | | | | | | |
|--------|--|--------------|---|--------------|-----------|-------|--|
| 1-90A | Basic Principles of Laboratory Animal Care | (first half) | (non-credit) | | | | |
| | Johnson | Tu 6:10-8:40 | \$42 | p. 13 | | | |
| 1-115A | Introduction to Modern Biology | (first half) | (2) | Kaszynski | Tu 6:10-8 | | |
| | \$28 and \$1 laboratory fee | p. 13 | | | | | |
| 1-126 | Medical Terms Simplified | (2) | Bollo | W 6:10-8 | \$28 | p. 13 | |
| 1-400 | Medical Information Cycle | (2) | Rosenblum | M 6:10-8 | \$28 | p. 13 | |
| 1-560 | Fundamentals of Medical Microbiology | (3) | Fusillo | Tu 6:10-8:40 | | | |
| | \$42 | p. 14 | (Meets at Veterans Administration Hospital) | | | | |
| 1-146 | Applied Physiology | (2) | Greenbaum | Tu 6:10-8 | \$28 | p. 14 | |
| 1-425 | General Pathology | (3) | Burns | W 6:10-8:40 | \$42 | p. 14 | |
| 1-565 | Fundamentals of Immunology | (3) | Janicki | M 6:10-8:40 | \$42 | p. 14 | |
| | (Meets at Veterans Administration Hospital) | | | | | | |
| 1-465 | Ecology and Field Biology | (3) | Furman | W 6:10-8:40 | \$42 | | |
| | (Three Saturday field trips) | | | | | | |
| | (Theories of community origin, structure, and function in relation to environment through interaction of organisms and interchange of energy. Significant papers discussed as guides to major concepts in field and related to local and foreign examples of ecosystem. Prerequisites: Introduction to Ecology and Biotic Communities; Deciduous Forests. Graduate standing, or substantial training in biological sciences, helpful.) | | | | | | |
| 1-570A | Design of Experiments in Biological Sciences | (first half) | (2) | Koch | | | |
| | W 4:45-6:35 | \$28 | p. 15 | | | | |
| | (Meets at Plant Industry Station, Beltsville, Maryland) | | | | | | |
| 1-502 | Public Policy and Environmental Pollution—Seminar | (2) | Nicoll | | | | |
| | W 6:10-8 | \$28 | p. 15 | | | | |

Natural History Field Studies

(Register September 10-17 for all courses.)

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|-------|--|-----|------------------------------|-----------|------|-------|---|
| 1-132 | Introduction to Outdoors | (1) | Buck, Osborn, and Associates | M 7:10-9 | \$14 | p. 16 | (Lectures September 19; October 3, 17, and 31. Field trips September 24; October 8 and 22) (Meets at Audubon Naturalist Society Headquarters) |
| 1-131 | Basic Biology | (1) | Strosnider | W 7:10-9 | \$14 | p. 16 | (8 weeks beginning November 16) (Meets at Audubon Naturalist Society Headquarters) |
| 1-130 | Physical Environment I: Geology | (1) | Robison | Tu 6:10-8 | \$14 | p. 16 | (Lectures September 20; October 4 and 18; November 1. Field trips October 1, 15, and 29) |
| 1-129 | Physical Environment II: Weather and Climate | (1) | Lehr | Tu 6:10-8 | \$14 | p. 16 | (8 weeks beginning November 15) |
| 1-138 | Biotic Communities I: Deciduous Forests | (1) | Osborn and Gilbert | M 7:10-9 | \$14 | p. 17 | (Lectures September 26; October 10 and 24; November 7. Field trips October 1, 15, and 29) (Meets at Audubon Naturalist Society Headquarters) |
| 1-134 | Animal Behavior | (1) | Ficken | M 7:10-9 | \$14 | p. 17 | (8 weeks beginning November 14) (Meets at Audubon Naturalist Society Headquarters) |
| 1-135 | Biotic Communities III: Aquatic and Marsh | (1) | Buck and Associates | Tu 6:10-8 | \$14 | p. 17 | (Lectures September 27; October 11 and 25; November 8. Field trips October 1, 15, and 29) |
| 1-137 | Conservation Philosophy | (1) | Briggs and Associates | Th 6:10-8 | \$14 | p. 18 | (8 weeks beginning November 10) |
| 1-151 | Bird Life | (1) | Messersmith | Th 6:10-8 | \$14 | p. 18 | (Lectures September 22 and 29; October 13 and 27; November 3. Field trips October 8 and 22) |

LANGUAGES AND LITERATURE

English—Grammar and Writing

2-29	Spelling and Basic Vocabulary	(non-credit)	Anderson	M	6:10-8	\$28	p. 23
2-39	Basic Grammar	(non-credit)	Anderson	W	6:10-8	\$28	p. 23
2-112	Practical English Usage	(2)	\$28	p. 23			
	Section I	Anderson	M	6:10-8			
	Section II	Dahlman	Tu	6:10-8			
	Section III	Jones	W	6:10-8			
	Section IV	Anderson	Th	6:10-8			
	Section V	Pritzker	F	6:10-8			
2-35	English for Secretaries	(non-credit)	Hubbard	Tu	6:10-8	\$28	p. 23
2-95	Improving Reading Ability	(non-credit)	Henderson	M-W	6-8	\$42	p. 23 (8 weeks)
2-38	English for Foreigners I	(non-credit)	Weeks	Th	6:10-8	\$28	p. 23
2-53	English for Foreigners II	(non-credit)	Weeks	Tu	6:10-8	\$28	p. 24
2-119	Vocabulary Building	(3)	\$42	p. 24			
	Section I	Jones	M	6:10-8:40			
	Section II	Dahlman	W	6:10-8:40			
2-222A	English Composition	(first half) (3)	\$42	p. 24			
	Section I	Whiteman	Tu	6:10-8:40			
	Section II	Reed	W	6:10-8:40			
2-222B	English Composition	(second half) (3)	Traylor	M	6:10-8:40	\$42	p. 24
2-223	College Grammar	(3)	Bryan	Tu	6:10-8:40	\$42	p. 24
2-226	Official Writing	(2)	\$28	p. 25			
	Section I	Freedman	M	6:10-8			
	Section II	McCormick	Tu	6:10-8			
2-235	Fiction Writing—Workshop	(2)	Arnold	M	6:10-8	\$28	p. 25
2-280	Feature Writing	(2)	Dolan	Tu	6:30-8:20	\$28	p. 25
2-450	Technical Writing	(2)	\$28	p. 25			
	Section I	Carter	M	6:10-8			
	Section II	Calvin	W	6:10-8			
2-285	Writing for Data Processing Installations	(2)	Nicholson	M	6:10-8	\$28	p. 25

Literature

2-215	American Literature I	(3)	Bean	W	6:10-8:40	\$42	p. 26
2-330A	Great Books	(first half) (Reading List A) (2)	Ruppert	M	6:10-8	\$28	p. 26
2-405A	Literary Masterpieces of the Orient	(first half) (2)	Arasteh	Th	6:10-8	\$28	p. 27

Information Methods

2-225	Principles of Editing and Their Application	(3)	Smith	W	6:10-8:40	\$42	p. 27
2-239	Intermediate Editing	(3)	Perlmutter	Tu	6:10-8:40	\$42	p. 27
2-412	Editing Technical Manuscripts	(2)	Reynolds	M	6:10-8	\$28	p. 28
2-415	Producing Popular Publications	(2)	Feldman	Th	6:10-8	\$28	p. 28
2-220	Indexing	(2)	Kozak	Th	6:10-8	\$28	p. 28
2-237	Printing, Layout, and Design	(2)	Murow and Associates	M	6:10-8	\$28	p. 28
2-243	Design in Visual Communications	(2)	Granahan	Th	6:10-8	\$28	p. 29
2-273	Writing for Audio-Visual Communications	(2)	Schwartz	M	7-8:50	\$28	p. 29 (Meets at Montgomery Blair High School, Silver Spring, Maryland)

Library Techniques

2-125	Introduction to Library Service	(2)	Moran	M	6:10-8	\$28	p. 29
2-135	Introduction to Cataloging and Classification	(2)	\$28	p. 29			
	Section I	Tate	Tu	6:10-8			
	Section II	Kuri	Th	6:10-8			
2-137	Basic Reference Service and Reference Tools	(2)	Pierson	W	6:10-8	\$28	p. 29
2-138	Introduction to Bibliographic Science	(2)	Popecki	Th	6:10-8	\$28	p. 29
2-114	Maps and Charts	(2)	Bahn	M	6:10-8	\$28	p. 30

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
2-420	Documentation in Science and Technology	(2)	Sherrod	Th	6:10-8	\$28 p. 30	
4-106	Information Storage and Retrieval by Computers	(3)	Austin	W	6:10-8:40	\$42 p. 53	
2-160	Library Techniques—Seminar	(3)	Sherrod	Tu	6:10-8:40	\$42 p. 30	

Speech

2-115	Oral Reading	(2)	Sykes	W	6:10-8	\$28 p. 31	
2-228	Public Speaking for Beginners	(2)	Miller	Th	6:10-8	\$28 p. 31	
2-229	Advanced Public Speaking	(2)	Donahue	W	6:10-8	\$28 p. 31	
2-232	Voice and Remedial Speech	(2)	Sykes	Tu	6:10-8	\$28 p. 31	

Chinese

2-202A	Advanced Mandarin Chinese (first half)	(3)	Tsao	Th	6:10-8:40	\$42 p. 32	
2-203	Scientific Chinese	(3)	Chen	M-W	6:30-7:45	\$42 p. 32	

French

2-253A	Elementary French (first half)	(3)			\$42 p. 32		
	Section I de Constant			Tu	6:10-8:40		
	Section II Bargin			W	6:30-9		
2-253B	Elementary French (second half)	(3)	Thatcher	Th	6:10-8:40	\$42 p. 32	
2-254A	Intermediate French (first half)	(3)	Bargin	Tu	6:30-9	\$42 p. 32	
2-68	Reading French (non-credit)		de Constant	W	6:10-8:40	\$42 p. 33	
2-87	Basic Conversational French (non-credit)		Bargin	F	6:10-8	\$34 p. 33	
2-255	Advanced French Conversation and Composition	(3)	Thatcher		M 6:10-8:40	\$42 p. 33	
2-59	Contemporary French Literature and Theater (non-credit)		de Constant		M 6:10-8:40	\$42 p. 33	

German

2-259A	Elementary German (first half)	(3)	Hoffmann	F	6:10-8:40	\$42 p. 33	
2-260A	Intermediate German (first half)	(3)	Lederer	W	6:10-8:40	\$42 p. 33	
2-88	Basic Conversational German I (non-credit)		von Luttichau	Tu	6:10-8:40	\$42 p. 33	
2-96	Basic Conversational German II (non-credit)		von Luttichau	Th	6:10-8:40	\$42 p. 34	
2-66	Reading Scientific German I	(3)	Lederer	M	6:10-8:40	\$42 p. 34	
2-69	Reading Scientific German II	(3)	Lederer	Tu	6:10-8:40	\$42 p. 34	

Italian

2-270A	Elementary Italian (first half)	(3)	Bauer	Tu	6:10-8:40	\$42 p. 34	
2-271A	Intermediate Italian (first half)	(3)	Bondi	Th	6:10-8:40	\$42 p. 34	

Portuguese

2-290A	Elementary Portuguese (first half)	(3)	Benoit	M	6:10-8:40	\$42 p. 34	
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Russian

2-295A	Elementary Russian (first half)	(3)			\$42 p. 35		
	Section I Fedaiy			Tu	6:10-8:40		
	Section II Scala			W	6:10-8:40		
2-295B	Elementary Russian (second half)	(3)	Zinovieff	Th	6:10-8:40	\$42 p. 35	
2-296A	Intermediate Russian (first half)	(3)	Zinovieff	Tu	6:10-8:40	\$42 p. 35	
2-296B	Intermediate Russian (second half)	(3)	Scala	Tu	6:10-8:40	\$42 p. 35	
2-299A	Advanced Russian (first half)	(3)	Scala	F	6:10-8:40	\$42 p. 35	
2-299B	Advanced Russian (second half)	(3)	Scala	Th	6:10-8:40	\$42 p. 35	
2-292	Scientific Russian I	(3)	Boldyreff	M	6:10-8:40	\$42 p. 35	
2-294	Scientific Russian II	(3)	Boldyreff	W	6:10-8:40	\$42 p. 35	

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
2-31	Russian Poetry (non-credit)	Boldyreff	F 6:10-8:40	\$42			
	(Review of Russian poetry to present, with emphasis on classical poets such as Lermontov and Pushkin. Interpretation and appreciation of form and content. Lecture, reading, translation, and discussion. Term paper optional. Prerequisite: Two years of college Russian, or equivalent.)						

Spanish

2-300A	Elementary Spanish (first half)	(3)	\$42	p. 35			
	Section I	Jaffe	M 6:10-8:40				
	Section II	Benoit	W 6:10-8:40				
2-301A	Intermediate Spanish (first half)	(3)	Brouwer	Th 6:10-8:40	\$42	p. 36	
2-302A	Advanced Spanish Conversation and Composition (first half)	(2)	Delgado	M 6:10-8	\$28	p. 36	
2-83	Basic Conversational Spanish I (non-credit)	Lasaga	M 6:10-8	\$34	p. 36		
2-84	Basic Conversational Spanish II (non-credit)	Delgado	Tu 6:10-8	\$34	p. 36		

Swahili

2-210A	Elementary Swahili (first half)	(3)	Ballali	Tu 6:10-8:40	\$42	p. 36	
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MATHEMATICS AND STATISTICS

Mathematics

3-35	Parents' Guide to New Mathematics (non-credit)	Wilmeth	Tu 6:10-8	\$18	p. 37	(10 weeks)	
3-8	Intermediate Algebra (non-credit)	\$42	p. 38				
	Section I	Butler	Tu 6:10-8:40				
	Section II	Fox	Th 6:10-8:40				
3-1A	Review of College Freshman Mathematics (first half)	(non-credit)					
	Diamond	M 6:10-8	\$28	p. 38			
3-102	College Algebra (4)	\$56	p. 38				
	Section I	Cooper	M-W 6:10-8				
	Section II	Gordon	Tu-Th 6:10-8				
3-444	Elements of Abstract Algebra (3)	Sanburn	Th 6:10-8:40	\$42	p. 38		
3-103	Trigonometry and Analytic Geometry (4)	Howcroft	M-W 6:10-8	\$56	p. 38		
3-206A	Calculus (first half)	(4)	\$56	p. 39			
	Section I	Thornton and Wurlitzer	M-W 6:10-8				
	Section II	Hicks	Tu-Th 6:10-8				
3-206B	Calculus (second half)	(4)	Adams and Gisvold	Tu-Th 6:10-8	\$56	p. 39	
3-500A	Topics in Applied Higher Mathematics (first half)	(3)	Heller	M 6:10-8:40	\$42	p. 39	
3-310A	Introduction to Probability Theory (first half)	(3)	Raff	Tu 6:10-8:40	\$42	p. 39	
3-312A	Numerical Methods in Computation (first half)	(2)	Cowgill	F 6:10-8	\$28	p. 39	
3-415A	Elementary Matrix Theory (first half)	(3)	\$42	p. 40			
	Section I	Sanburn	W 6:10-8:40				
	Section II	Gambino	Th 6:10-8:40				
3-502A	Differential Equations (first half)	(3)	McGrane	M 6:10-8:40	\$42	p. 40	
3-508	Theory of Errors (3)	Stearn	W 6:10-8:40	\$42	p. 40		
3-509A	Mathematics for Economists (first half)	(3)	Rojko	W 6:10-8:40	\$42	p. 40	
8-406	Engineering Mathematics (4)	Plait	Tu-Th 6:10-8	\$56	p. 104		
3-532	Introduction to Linear Programming (3)	Bach	W 6:10-8:40	\$42	p. 41		
3-533	Introduction to Operations Research I (3)	Miller	Th 6:10-8:40	\$42	p. 41		
3-537	Operations Research Approach to National and Industrial Strategy I (3)	Chacko	M 6:10-8:40	\$42	p. 41		

Statistics

3-6	Preparatory Mathematics for Introductory Statistics (non-credit)	\$28	p. 43				
	Section I	Caudill	M 6:10-8				
	Section II	Kibler	Tu 6:10-8				

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
3-126A	Introductory Statistics (first half)	(2)	\$28	p. 43			
	Section I	West	Tu 6:10-8				
		(Prerequisite: High school algebra)					
	Section II	Wilmeth	W 6:10-8				
		(Prerequisite: Undergraduate degree, or Grade GS-11, or above)					
	Section III	Wilmeth	Th 6:10-8				
		(Prerequisite: High school algebra)					
	Section IV	West	Th 6:10-8				
		(Prerequisite: Undergraduate degree, or Grade GS-11, or above)					
3-126B	Introductory Statistics (second half)	(2)	Wilmeth	M 6:10-8	\$28	p. 43	
3-380A	Principles of Statistical Analysis (first half)	(3)	Stauber				
	Tu-Th 6-7:15	\$42	p. 44				
3-136	Graphic Methods of Presenting Statistics	(2)	Guidry	Th 6:10-8			
	\$28	p. 44					
3-318	Machine Tabulation I	(2)	Denit	M 6:10-8	\$28 and \$5 laboratory fee	p. 44	
3-385A	Elements of Statistical Methods (first half)	(2)	Richardson				
	M 4:45-6:35	\$28	p. 44	(Meets at Agricultural Research Center, Beltsville, Maryland)			
3-400A	Mathematical Statistics (first half)	(4)	Bailar	Tu-Th 6:30-8:20			
	\$56	p. 44					
3-405	Statistics in Experimental Research	(3)	Murfield	Th 6:10-8:40	\$42	p. 45	
3-435	Sampling in Social and Economic Surveys	(3)	Nisselson	W 6:10-8:40			
	\$42	p. 45					
3-450	Introduction to Population Statistics	(3)	Siegel	Tu 6:20-8:50	\$42	p. 45	
3-702A	Application of Experimental Statistics to Biological Problems (first half)						
	(3) Lehmann	Tu-Th 4:45-6	\$42	p. 45			
	(Meets at Agricultural Research Center, Beltsville, Maryland)						
3-735A	Theory of Sample Surveys (first half)	(2)	Steinberg	W 6:10-8			
	\$28	p. 46					
3-736	Nonsampling Errors in Statistical Surveys	(2)	Pritzker	W 6:10-8			
	\$28	p. 46					
3-025	Federal Statistical Services (non-credit)		Ryan	3:30-5 September 22, October 6 and 20, and November 3	p. 46	(Registration is required, but no charge is made.)	

Automatic Data Processing

4-105	Basic Concepts of Data Processing	(3)	\$42	p. 53			
	Section I	Suter	M 6:10-8:40				
	Section II	Richardson	M 6:10-8:40				
	Section III	Weiss	M 6:10-8:40				
	(Section III meets at the National Library of Medicine, Bethesda, Maryland)						
	Section IV	Alexander	Tu 6:10-8:40				
	Section V	Nicholson	Tu 6:10-8:40				
	Section VI	Whitener	W 6:10-8:40				
	Section VII	Strite	W 6:10-8:40				
	Section VIII	Nicholson	Th 6:10-8:40				
	Section IX	Weiss	Th 6:10-8:40				
	(Section IX meets at the National Library of Medicine, Bethesda, Maryland)						
	Section X	Cooper	F 6:10-8:40				
3-318	Machine Tabulation I	(2)	Denit	M 6:10-8	\$28 and \$5 laboratory fee	p. 44	
3-559A	Electronic Data Processing—General (first half)	(3)	\$42	p. 47			
	Section I	Newman	M 6:10-8:40				
	Section II	Smith	Tu 6:10-8:40				
	Section III	Burgis	Th 6:10-8:40				
3-559B	Electronic Data Processing—General (second half)	(3)	\$42	p. 47			
	Section I	Galler	M 6:10-8:40				
	Section II	Cook	Tu 6:10-8:40				
3-562	ADP System—Analysis, Design, Acquisition, and Operation	(3)	Daly				
	W 6:10-8:40	\$42	p. 48				

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
3-573A	Programming Honeywell 200	(first half)	(3)	Jaffe	Tu 6:10-8:40	\$42 p. 48	
3-552A	Data Processing on Electronic Computers—UNIVAC 1105	(first half)	(3)	McGann	Th 6:10-8:40	\$42 p. 48	
3-568A	Data Processing on Electronic Computers—UNIVAC 1107	(first half)	(3)	Henderson	W 6:10-8:40	\$42 p. 48	
3-321	Operators Training, IBM 360/30	(2)	Lair	W 6:10-8	\$28 p. 48		
3-578A	IBM 360 Data Processing System	(first semester)	(3)		\$42 p. 49		
	Section I	Trask (Fortran)	M 6:10-8:40				
	Section II	Mitchell (Cobol)	Tu 6:10-8:40				
	Section III	Jackson (Fortran)	Th 6:10-8:40				
	Section IV	Whitener (Cobol)	Th 6:10-8:40				
3-578B	IBM 360 Data Processing System	(second semester)	(3)		\$42 p. 49		
	Section I	Close	M 6:10-8:40				
	Section II	Merrill	Tu 6:10-8:40				
3-578C	IBM 360 Data Processing System	(third semester)	(3)	Burke	M 6:10-8:40	\$42 p. 49	
3-579A	Basic Operating 360 Assembler Language	(first half)	(3)	Hill	Tu 6:10-8:40	\$42 p. 49	
3-585A	Data Processing on Electronic Computers—IBM 1401	(first semester)	(3)		\$42 p. 49		
	Section I	Lowrie	M 6:10-8:40				
	Section II	Hall	M 6:10-8:40				
	Section III	Warncke	Tu 6:10-8:40				
	Section IV	Nucci	W 6:10-8:40				
	Section V	Pluebell	Th 6:10-8:40				
	Section VI	Martin	F 6:10-8:40				
3-585B	Data Processing on Electronic Computers—IBM 1401	(second semester)	(3)		\$42 p. 49		
	Section I	Gunn	M 6:10-8:40				
	Section II	Willey	W 6:10-8:40				
	Section III	Haverlock	Th 6:10-8:40				
3-585C	Data Processing on Electronic Computers—IBM 1401	(third semester)	(3)	Nowotny	Tu 6:10-8:40	\$42 p. 49	
3-588A	Data Processing on Electronic Computers—IBM 1410	(first half)	(2)	Zeller	M 6:10-8	\$28 p. 50	
3-588B	Data Processing on Electronic Computers—IBM 1410	(second half)	(2)	Zeller	W 6:10-8	\$28 p. 50	
3-595	Cobol Programming—Fundamentals	(3)	\$42 p. 50				
	Section I	Scichilone	M 6:10-8:40				
	Section II	Jefferson	Tu 6:10-8:40				
	Section III	Moyn	Th 6:10-8:40				
3-589	Fortran Programming for Scientific and Business Computers	(3)	\$42 p. 50				
	Section I	Fry	M 6:10-8:40				
	Section II	Buckmaster	W 6:10-8:40				
3-591	PL/I Programming—Fundamentals	(3)	Sampson	W 6:10-8:40	\$42 p. 50		
3-760A	Programming Techniques for General Purpose Electronic Digital Computer—Scientific Applications	(first half)	(3)	Gressett	Th 6:10-8:40	\$42 p. 50	
3-762	Electronic Computer Methods for Statisticians	(3)	Goetzinger	M 6:10-8:40	\$42 p. 50		
2-285	Writing for Data Processing Installations	(2)	Nicholson	M 6:10-8	\$28 p. 25		
3-312A	Numerical Methods in Computation	(first half)	(2)	Cowgill	F 6:10-8	\$28 p. 39	
4-106	Information Storage and Retrieval by Computer	(3)	Austin	W 6:10-8:40	\$42 p. 53		
8-682	Elements of Digital Data Processing	(3)	Milesen and Muschter	M 6:10-8:40	\$42 p. 103		
8-685	Engineering Applications of Digital Computers	(3)	Smith	Th 6:10-8:40	\$42 p. 103		

OFFICE TECHNIQUES AND OPERATIONS

Administrative Procedures

- 4-101 **Everyday Mathematics** (2) \$28 p. 53
 Section I Mouser Tu 6:10-8
 Section II Schultz W 6:10-8
- 4-105 **Basic Concepts of Data Processing** (3) \$42 p. 53
 Section I Suter M 6:10-8:40
 Section II Richardson M 6:10-8:40
 Section III Weiss M 6:10-8:40
 (Section III meets at the National Library of Medicine,
 Bethesda, Maryland)
 Section IV Alexander Tu 6:10-8:40
 Section V Nicholson Tu 6:10-8:40
 Section VI Whitener W 6:10-8:40
 Section VII Strite W 6:10-8:40
 Section VIII Nicholson Th 6:10-8:40
 Section IX Weiss Th 6:10-8:40
 (Section IX meets at the National Library of Medicine,
 Bethesda, Maryland)
 Section X Cooper F 6:10-8:40
- 4-106 **Information Storage and Retrieval by Computer** (3) Austin W 6:10-8:40
 \$42 p. 53
- 4-108 **Administrative Procedure** (2) \$28 p. 53
 Section I Hickey M 6-7:50
 Section II Wright Tu 6:10-8
- 4-201 **Modern Supervisory Practice** (2) \$28 p. 54
 Section I Berg M 6:10-8:30 (12 weeks)
 Section II Van Dersal W 6:10-8:30 (12 weeks)
- 4-206 **Essentials of Good Office Management** (3) Wagner W 6:10-8:40
 \$42 p. 54
- 4-112A **Federal Fiscal Procedure** (first half) (2) Robbins Th 6:10-8 \$28 p. 54
- 4-114 **Federal Personnel Procedure** (2) Moriarty and Starns Tu 6:10-8
 \$28 p. 55
- 4-115 **Federal Purchasing Procedure** (2) \$28 p. 55
 Section I Baldauf M 6:10-8
 Section II Baldauf Tu 6:10-8
- 4-116 **Federal Budgetary Procedure: Formulation and Presentation** (2) \$28 p. 55
 Section I McComber W 6:10-8
 Section II Jewell Th 6:10-8
- 4-117 **Records Management Procedure** (2) Luttrell and Lando Tu 6:10-8
 \$28 p. 55
- 4-412 **Reports and Forms Management** (2) Rice and Meehan Tu 6:10-8
 \$28 p. 56
- 4-330 **Government Letter Writing** (2) Dawson Th 6:10-8 \$28 p. 56

Shorthand

- 4-89 **Review of Gregg Shorthand** (Anniversary) (60-80 words) (non-credit)
 Dow M-Th 6:10-7:30 \$42 p. 57
- 4-129 **Gregg Shorthand I** (Jubilee) (3) \$42 p. 57
 Section I Bell M-Th 6:10-7:30
 Section II Jackowski M-Th 6:10-7:30
- 4-130 **Gregg Shorthand II** (Jubilee) (3) \$42 p. 57
 Section I Brees M-Th 6:10-7:30
 Section II Murphy M-Th 6:10-7:30
- 4-225 **Gregg Shorthand III** (60-80 Words) (3) \$42 p. 57
 Section I Olsen M-Th 6:10-7:30
 Section II Vallieres M-Th 6:10-7:30
- 4-226 **Gregg Shorthand IV** (80-100 Words) (3) Trottnow M-Th 6:10-7:30
 \$42 p. 58
- 4-227 **Gregg Shorthand V** (100-120 Words) (3) Butler M-Th 6:10-7:30
 \$42 p. 58

PHYSICAL SCIENCES

General

5-225A	Principles of Physical Science (first half)	(2)	Pallansch	Tu	6:10-8	\$28 p. 59	
5-435	Advanced Modern Science (first half)	(3)	Hertzberg	Tu	6:10-8:40	\$42 p. 59	
5-349	Advanced Space Science	(2)	Fellows	M	6:10-8	\$28 p. 59	
5-175A	Descriptive Astronomy (first half)	(2)	Chou	W	7:10-9:20	\$28 p. 60	
5-765A	Practical Electronics for Biologists and Chemists (first half)	(2)	Wilkins	M	6:10-8	\$28 p. 60	

Chemistry and Physics

5-100A	General Chemistry (first half)	(3)	Jaquith	M	6:10-8:40	\$42 p. 61	
5-248A	Organic Chemistry (first half)	(3)	Alexander	Th	5:45-8:35	\$42 p. 61	(Meets at Walter Reed Army Institute of Research)
5-404	Organic Chemistry of Pesticides	(3)	Benson	Tu	6:10-8:40	\$42 p. 61	
5-315A	Elementary Biochemistry (first half)	(2)	Flick	W	6:10-8	\$28 p. 61	
5-320	Basic Biochemistry (first half)	(2)	Feinstein	Tu	5-6:50	\$28 p. 61	(Meets at Plant Industry Station, Beltsville, Maryland)
5-406	Nutritional Biochemistry	(2)	Adkins	Th	6:10-8	\$28 p. 61	
5-403	Biochemistry of Steroid Hormones	(3)	Tolson	W	6:10-8:40	\$42 p. 62	
5-423	Spectral Identification of Organic Compounds	(3)	Swinehart	Tu	6:10-8:40	\$42 p. 62	
5-484	Chemical Thermodynamics	(3)	Meyer	Th	6:10-8:40	\$42 p. 62	
5-155A	Principles of Physics (first half)	(2)	Smith	Th	6:10-8	\$28 p. 63	
5-126	Modern Physics	(2)	Drachman	Tu	6:10-8	\$28 p. 63	
5-411	Biophysics	(3)	Weissler	Tu	6:10-8:40	\$42 p. 63	
5-745	Principles of Masers and Lasers	(3)	Harrison	M	6:10-8:40	\$42 p. 63	
5-418	Introduction of Gas Chromatography	(3)	Kazyak	Tu	5:20-8:10	\$42 p. 63	(Meets at Walter Reed Army Institute of Research)
5-426	Principles of Gas Chromatography	(2)	Hornstein	W	4:45-6:35	\$28 p. 63	(Meets at Plant Industry Station, Beltsville, Maryland)

Geography and Geology

5-203	General Geology	(3)	Douglass	Tu	6:10-8:40	\$42 p. 64	
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Meteorology

5-415	Applied Climatology	(3)	Thom	M	6:10-8:40	\$42 p. 65	
5-592	Physics of Upper Atmosphere and Sounding Techniques	(2)	Giraytys	Tu	6:10-8	\$28 p. 65	

Oceanography

5-360	General Oceanography	(2)	Hicks	M	6:10-8	\$28 p. 66	
5-475	Principles of Underwater Sound	(2)	Winokur	Tu	4:45-6:35	\$28 p. 66	(Meets at U.S. Naval Oceanographic Office)
5-658	Geological Oceanography	(2)	Weiss	Tu	4:30-6:20	\$28 p. 67	(Meets at National Oceanographic Data Center)
5-662	Marine Meteorology	(2)	Burkhart	Th	4:30-6:20	\$28 p. 67	(Meets at U.S. Naval Oceanographic Office)
5-664	Dynamic Oceanography	(2)	Schule	M	4:30-6:20	\$28 p. 67	(Meets at U.S. Naval Oceanographic Office)
5-666A	Biological Oceanography (first half)	(2)	Cuzon Du Rest	Th	4:30-6:20	\$28 p. 67	(Meets at National Oceanographic Data Center)

PUBLIC ADMINISTRATION

General Administration

6-341	American National Government	(3)	Frederic	M	6:10-8:40	\$42	p. 70
6-344	Introduction to Public Administration	(2)	Sims	Th	6:10-8	\$28	p. 70
6-20	Contemporary Problems (non-credit)		Cox	M	6:10-8	\$28	p. 71
6-355	War Against Poverty—USA	(2)	Robinson	Th	6:10-8	\$28	p. 71
6-440	Metropolis: Government, Finances, and People	(3)	House	W	6:10-8:40	\$42	p. 71
6-453	Human Relations in Administration	(3)	Enneis	Tu	6:10-8:40	\$42	p. 72
6-459	Executive Staffwork	(3)	Hurt	M	6:10-8:40	\$42	p. 72
6-600	Readings in Public Administration	(3)	Thurston	(Coordinator)			To be arranged \$42 p. 72

American History

6-250	American History to 1865	(3)	Rasmussen	W	6:10-8:40	\$42	p. 72
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Management and Management Analysis

6-347	Principles and Practice of Management	(2)	Wilson	Th	6:10-8	\$28	p. 73
6-405A	Principles and Techniques of Management Analysis (first half)	(2)	Greenwood	Th	6:10-8	\$28	p. 73
6-202	Management—Seminar	(3)	Van Dersal	Th	6:10-8:40	\$42	p. 74
6-511	Quantitative Approaches to Management Problems	(3)	Moundalexis	Tu	6:10-8:40	\$42	p. 74
6-519	Work Standards and Work Measurement	(2)	Schneider	Tu	6:10-8	\$28	p. 74

Personnel Administration

6-430	Public Personnel Administration	(3)	Terry and Garnett	M	6:10-8:40	\$42	p. 76
6-432	Management—Employee—Employee-Management Communications	(2)	Draheim	Tu	6:10-8	\$28	p. 76
6-408	Supervisor's Role in Labor-Management Relations	(2)	Curran and Heimbach	M	6:10-8	\$28	p. 76
6-305	Safety Programs Management	(2)	Pope and Gordon	M	6:10-8	\$28	p. 76
6-411	Research Applications in Personnel Management	(2)	Glickman and Harmon	W	6:10-8	\$28	p. 77
6-444	Position Classification	(2)	Suskin and Pitcher	W	6:10-8	\$28	p. 77
6-512	Employment and Placement	(3)	Garnett and Lorentzen	M	6:10-8:40	\$42	p. 77
6-520	Manpower Planning and Utilization	(2)	John	Tu	6:10-8	\$28	p. 77

Legal Administration

6-320	Administrative Law and Procedure	(2)	Flavin	M	6:10-8	\$28	p. 78
6-422A	Business Law (first half)	(2)	Perlman	W	6:10-8	\$28	p. 78

Procurement and Property Management

6-364	Federal Contracting	(2)	Gunther	W	6:10-8	\$28	p. 79
6-370	Government Construction Contracts	(2)	Gantt and Associates	Th	6:10-8	\$28	p. 79
6-374	Research and Development Contracting	(2)	Burns	Tu	6:10-8	\$28	p. 79
6-638A	Government Defense Contracts (first half)	(2)	Davidson	Tu	6:10-8	\$28	p. 80
6-565	Inventory Management	(2)	Silverman	M	6:10-8	\$28	p. 80

Accounting and Financial Management

6-635	Federal Budgetary Administration	(2)	Burris	W	6:10-8	\$28	p. 83
6-342	Accounting for Non-Accountants	(2)	Stratton	Tu	6:10-8	\$28	p. 83
6-343	Statistical Sampling for Financial Management	(3)	Mandel	W	6-8:30	\$42 and \$5 laboratory fee	p. 83

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
6-352A	Principles of Accounting	(first half)	(3)	\$42	p. 84		
	Section I	Tronolone	Tu	6:10-9:45			
	Section II	Palenski	Tu	6:10-9:45			
	Section III	Sitko	Th	6:10-9:45			
	Section IV	Hirschhorn	F	6:10-9:45			
6-352B	Principles of Accounting	(second half)	(3)	Carter	Tu 6:10-9:45		
	\$42	p. 84					
6-353A	Intermediate Accounting	(first half)	(3)	Hord	M 6:10-8:40	\$42	p. 84
6-420A	Advanced Accounting	(first half)	(3)	Baron	M 6:10-8:40	\$42	p. 84
6-264A	Federal Government Accounting	(first half)	(2)	Canada	W 6:10-8		
	\$28	p. 84					
6-275	Regulatory Accounting	(3)	Stromberg	Tu 6:10-8:40	\$42	p. 85	
6-601	Principles of Auditing	(3)	Haaser	Tu 6:10-8:40	\$42	p. 85	
6-650A	Audit and Investigation Management—Seminar	(first half)	(3)	Greess	M 6:10-8:40	\$42 and \$10 laboratory fee	p. 85
6-642A	Cost Accounting	(first half)	(3)	Lobb	W 6:10-8:40	\$42	p. 86
6-423	Mathematics of Accounting and Investment	(3)	Mason	Th 6:10-8:40	\$42	p. 86	
6-645	Federal Income Taxes	(3)	Hamilton	W 6:10-8:40	\$42	p. 86	

SOCIAL SCIENCES

Economics

7-201A	Principles of Economics	(first half)	(3)	\$42	p. 87		
	Section I	Miller	M	6:10-8:40			
	Section II	Shapiro	Tu	6:10-8:40			
7-548A	Economic Analysis	(first half)	(3)	Edwards	Tu 6:10-8:40	\$42	p. 88
7-570A	Measurement and Applications of Economics	(first half)	(3)				
	Abel and Walters	Th	6:10-8:40	\$42	p. 88		
7-477	Regional Economic Analysis	(3)	Green	M 6:10-8:40	\$42	p. 88	
7-489	Resource Economics	(3)	Back	M 6:10-8:40	\$42	p. 88	
7-491	Industrial Organization	(3)	Parker	Tu 6:10-8:40	\$42	p. 89	
7-496	Business and Government	(2)	Hurley	M 6:10-8	\$28	p. 89	
7-239	Natural Resources and International Economic Development	(3)	Singleton	Tu 6:10-8:40	\$42	p. 89	
7-532A	International Marketing and National Export Expansion	(first half)	(3)				
	Trotter	Th	6:10-8:40	\$42	p. 90		
7-469	Economics of Cooperative Enterprise	(3)	Abrahamsen	Th 6:10-8:40	\$42	p. 90	
7-488	Federal Government and Electric Power	(3)	Chase	W 6:10-8:40	\$42	p. 90	
7-457A	Economics of Agricultural Development	(first half)	(3)	Christensen	S 9:30-12	\$42	p. 91
7-2	How and Why of Stock Investments	(non-credit)	Ebenfield	W 6:10-8	\$28	p. 92	

Human Relations

7-210	General Psychology	(3)	\$42	p. 92			
	Section I	Schein	Tu	6:10-8:40			
	Section II	Kaplan	W	6:10-8:40			
7-222	Psychology of Adjustment	(3)	Fields	Tu 6:10-8:40	\$42	p. 92	
7-235	Introductory Social Psychology	(3)	Bloom	M 6:10-8:40	\$42	p. 93	
7-446	Personnel Psychology	(3)	King	M 6:10-8:40	\$42 and \$2 laboratory fee	p. 93	
7-493	Philosophy of Education	(Bruner)	(2)	Tagliacozzo	Th 6:10-8	\$28	p. 93
7-544A	Psychological Creativity as Applied to Professional Improvement	(first half)	(2)	Arasteh	Tu 6:10-8	\$28	p. 93

No.	Course Title (Cr.)	Instructor	Day	Time	Fee	Catalog page
7-304	Conditions of Personality Growth (2)	Stammeyer	Tu	6:10-8	\$28	p. 93
7-541	Improving Human Relations and Group Behavior (2)	Bauer	M	6:10-8	\$28 p. 94	
7-600	Readings and Papers in Human Relations (3)	Kraus			To be arranged	
					\$42 p. 94	
7-400	General Semantics (2)	Eldridge	W	7:10-9	\$28	p. 94
7-545	Counseling Techniques (3)	Cornsweet	M	6:10-8:40	\$42	p. 95
7-547	Counseling and Behavior Modifications—Seminar (3)	Cornsweet	W	6:10-8:40	\$42	p. 95
7-536	Psychological Tests and Measurements (3)	Dupuy	W	6:10-8:40	\$42 and \$5 laboratory fee	p. 95
7-741A	Human Learning—Seminar (first half) (3)	McPherson	Tu	6:10-8:40	\$42	p. 95
7-494	Research Methodology in Behavioral Sciences (2)	Wright	W	6:10-8	\$28	p. 96
7-549	Juvenile Delinquency (3)	Kramer	Tu	6:10-8:40	\$42	p. 96
7-552	Racial Conflict in the United States 1865-1965—Seminar (3)	Wright	M	6:10-8:40	\$42	p. 96
7-115A	Introduction to Sociology (first half) (3)	Weinstein	Th	6:10-8:40	\$42	p. 97
7-389	Sociology of Work (2)	Weinlein	M	6:10-8	\$28	p. 97
7-640	Medical Sociology I (3)	Kramer	M	6:10-8:40	\$42	p. 97
7-542	Russia: Yesterday, Today, and Tomorrow (3)	Czajkowski	W	6:10-8:40	\$42	p. 98
7-499	Introduction to Modern China (3)	Tsao	W	6:10-8:40	\$42	p. 98
7-314	Contemporary Situation in Philosophy (2)	Murphy	W	6:10-8	\$28	p. 98
7-302	General Anthropology (3)	Ortner	Th	6:10-8:40	\$42	p. 98
7-20	World Politics—Study Discussion Group (non-credit)	Sweeney	Th	6:10-8	(10 weeks) \$18	p. 98

TECHNOLOGY

Engineering

8-92	Review of Engineering Fundamentals for P. E. Examination (non-credit)	Rixse	W	6:10-8:40	\$42	p. 100
8-93	Civil Engineering Review for P. E. Examination (non-credit)	Sears	M	6:10-8	\$28	p. 100
8-95	Electrical Engineering Review for P. E. Examination (non-credit)	Jessel, Joffe, and Thomas	W	6:10-8	\$28	p. 101
8-98	Mechanical Engineering Review for P. E. Examination (non-credit)	Jessop	Tu	6:10-8	\$28	p. 101
8-110A	Principles of Electricity (first half) (2)	Askegaard	M	6:10-8	\$28	p. 101
8-472	Symmetrical Components (3)	Slinguff	Th	6:10-8:40	\$42	p. 101
8-715A	Electric Power Transmission (first half) (3)	Hieber	M	6:10-8:40	\$42	p. 101
8-465A	Applied Electronic Theory (first half) (3)	Cullinane	M	6:10-8:40	\$42	p. 102
8-525A	Transistor Electronics (first half) (3)	Instructor to be announced	Tu	6:10-8:40	\$42	p. 102
8-528A	Transient Circuit Analysis (first half) (3)	Yanis	Th	6:10-8:40	\$42	p. 102
8-711	Servomechanisms (3)	Titus	Tu	6:10-8:40	\$42	p. 102
8-407	Radar Systems Engineering (2)	Trisler	M	6:10-8	\$28	p. 102
8-690	Nuclear Reactors (2)	Schulman	M	6:10-8	\$28	p. 102
8-101	Introduction to Metallurgy (2)	Loring	Tu	6:10-8	\$28	p. 103

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog page
8-405	Principles of Specifications	(2)	Rosenzweig	Tu	6:10-8	\$28	p. 103
8-682	Elements of Digital Data Processing	(3)	Milesen and Muschter				
	M 6:10-8:40	\$42	p. 103				
8-685	Engineering Applications of Digital Computers	(3)	Smith	Th	6:10-8:40		
	\$42	p. 103					
8-474	Engineering Economics	(3)	Instructor to be announced	W	6:10-8:40		
	\$42	p. 103					
8-406	Engineering Mathematics	(4)	Plait	Tu-Th	6:10-8	\$56	p. 104
8-695A	Engineering Reliability (first half)	(2)	Price	W	6:10-8	\$28	p. 104
8-713A	Thermo-heat-power (first half)	(2)	Jessop	M	6:10-8	\$28	p. 104
8-710A	Steam Power Plants (first half)	(3)	Potter and Associates	M	6:10-8:40		
	\$42	p. 104					
8-714	Heating, Ventilating, and Air Conditioning	(3)	Hollander	M	6:10-8:40		
	\$42	p. 105					
8-720	Structural Engineering of Foundations and Superstructures	(2)	Weggel				
	Tu 6:10-8	\$28	p. 105				
8-697	Highway Location and Design	(3)	Green	Th	6:10-8:40	\$42	p. 105

Surveying and Mapping

8-132	Introduction to Geodesy	(2)	Instructor to be announced	M	6:10-8		
	\$28	p. 107					
8-135	Elementary Surveying	(3)	Blackburn	M	6-8 and 4 Saturday	Field Trips	
	\$42 and \$2 laboratory fee	p. 107					
8-120	Introduction to Photogrammetry	(2)	Southard	Tu	6:10-8	\$28	p. 108
8-208	Aerial Photographic Interpretation	(3)	Chisnell	Th	6:10-8:40	\$42	p. 108
8-251	Photogrammetry I	(3)	Edson and Mullen	W	6:10-9:30	\$42	p. 109
3-508	Theory of Errors	(3)	Stearn	W	6:10-8:40	\$42	p. 40
8-240	Cartographic Techniques and Map Reproduction	(2)	Basile	Th	6:10-8		
	\$28	p. 110					
8-226	Applications of Mathematics to Surveying and Mapping	(3)	Cook				
	Th 6:30-9	\$42	p. 110				

Fine Arts

8-320	Pencil Sketching and Water Color Painting	(2)	Cupoli	M	6:10-9		
	\$42 and \$5 laboratory fee	p. 111					
8-332	Introduction to Creative Expression	(2)	McKenna	M	6:10-9		
	\$42 and \$5 laboratory fee	p. 112					
8-323	Portrait Painting in Oil	(2)	Lazzari	W	6:10-9	\$42 and \$5 laboratory fee	
	p. 112						
8-338	Life Sketching	(2)	Cupoli	Th	6:10-9	\$42 and \$10 laboratory fee	p. 112
8-357	Etching	(2)	Frederick	Th	6:10-9	\$42 and \$5 laboratory fee	
	(Practice combined with lecture and demonstration to enable the student to produce his own prints in all phases of etching. Workshop to establish solid foundation to overcome technical problems. Emphasis on craft with time for free experimentation. No previous experience necessary, but knowledge of drawing helpful.)						
8-355	Creative Painting	(2)	Abramowitz	M	4:45-7:35	\$42 and \$5 laboratory fee	
	p. 112	(Meets at Prince Georges Plaza, Hyattsville, Maryland)					
8-366	Anatomy of Creative Art	(2)	Cohen	Th	6:10-8:40		
	\$42 and \$5 laboratory fee	p. 112					
8-356	Oriental Painting	(2)	Chang	F	6:10-9	\$42 and \$5 laboratory fee	p. 112
8-333	Art Appreciation and Survey	(2)	Starr	W	6:10-8	\$28	p. 112
8-344	Introduction to Chinese and Japanese Art	(2)	Eagle	W	7-8:50		
	\$28	p. 113					
8-370	Music Appreciation	(2)	Shortridge	Th	6:10-8	\$28 and \$5 laboratory fee	
	p. 113						
8-445A	Music Theory (first half)	(3)	Shortridge	W	6:10-8:40	\$42	p. 113
8-359	Sources of Theater	(2)	Waters	M	6:10-8	\$28	p. 113

Applied Arts

8-35	Introduction to Institutional Housekeeping (non-credit)		Morgan and Associates	Th	6:30-8:20	\$28 p. 114	
8-55	Introduction to Interior Decoration (non-credit)		Chandler, Gould, and Associates of A.I.D.	Th	6:10-8	\$28 p. 114	
8-114A	Graphic Arts in Federal Government (first half) (2)		Eysenberg and Taylor	W	6:10-8	\$28 p. 114	
8-146	Creative Design (2)		Mendez	Tu	6:10-8	\$28 p. 114	
8-140	Advanced Dimensional Design (2)		Baka	W	6:10-8	\$28 p. 114	
2-243	Design in Visual Communication (2)		Granahan	Th	6:10-8	\$28 p. 29	
8-284	Landscape Design of Small Property (2)					\$28 p. 115	
	Section I		Schultheis	W	7:10-9		
	Section II		Schultheis	Th	7:10-9		

Photography

8-70	Introduction to Photography (non-credit)		McCullough	W	6:10-8	\$28 and \$2 laboratory fee p. 115	
8-192	Fundamentals of Photography I (2)					\$28 p. 115	
	Section I		Warren	M	6:10-8		
	Section II		Pimental	W	6:10-8		
8-193	Practice of Photography I (3)					\$42 and \$4 laboratory fee p. 116	
	Section I		Fuller	M	6:10-8:40		
	Section II		Witte	W	6:10-8:40		
8-360A	Portrait Photography (first half) (2)		Purdy	Th	6:10-8	\$28 and \$4 laboratory fee p. 116	
8-270A	Color Photography and Color Printing (first half) (3)		Rodbell	Th	6:10-8:40	\$42 and \$15 laboratory fee p. 116	
8-270B	Color Photography and Color Printing (second half) (3)		Rodbell	Tu	6:10-8:40	\$42 and \$15 laboratory fee p. 116	
8-274	Photographic Instrumentation (2)		Pimental	M	6:10-8	\$28 p. 116	
8-194	Creative Photography through Composition I (2)		Miller	M	6:10-8	\$28 and \$4 laboratory fee p. 117	
8-198	Photo-journalism (2)		Clark	Th	6:10-8	\$28 p. 117	
8-011	Photographic Roundtable (non-credit)		Matthews	To be arranged		\$5 p. 117	

Lithography

8-165	Copy Preparation—Pasteup (3)		Martin	Tu	6:10-8:40	\$42 p. 117	
	(Meets at Prince Georges Plaza, Hyattsville, Maryland)						
8-166	Copy Preparation—Photographic (3)		Wray	W	6:10-8:40	\$42 and \$24 laboratory fee p. 118	
	(Meets at Prince Georges Plaza, Hyattsville, Maryland)						
8-170A	Survey of Lithography (first half) (3)		Reznikoff	M	6:10-8:40	\$42 p. 118	
	(Meets at Northwestern High School, Hyattsville, Maryland)						
8-171A	Offset Stripping and Negative Work (first half) (3)		Hamm	Th	6:10-8:40	\$42 and \$10 laboratory fee p. 118	
	(Meets at Prince Georges Plaza, Hyattsville, Maryland)						
8-174A	Offset Photography (first half) (3)		Rankin	Th	6:10-8:40	\$42 and \$10 laboratory fee p. 118	
	(Meets at Prince Georges Plaza, Hyattsville, Maryland)						
8-175	Lithographic Estimating (2)		Molinari	M	6:10-8	\$28 p. 118	
	(Meets at Northwestern High School, Hyattsville, Maryland)						
8-176	How to Order Printing (3)		Bernstein	Th	6:10-8:40	\$42 p. 118	
	(Meets at Northwestern High School, Hyattsville, Maryland)						

U. S. DEPARTMENT OF AGRICULTURE
GRADUATE SCHOOL
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1966 FALL SCHEDULE OF CLASSES

